If you love science, technology, engineering, or information technology, then a career in land-based engineering could be for you. The skills and types of land-based engineering include diagnostics repair and testing, all in the context of diesel and petrol engines, equipment controlled by GPS technology and integrated into environmental information - a fantastic mix of innovation and problem solving. It's not all about farming either, everything concerned with the upkeep and control of the countryside, forestry, sports grounds and open spaces involves the application of engineering solutions.

We offer both full-time and apprenticeship routes for school leavers. Once you have completed the Level 3 qualification you will be able to work all over the world in a range of careers maintaining and repairing land-based machinery and technology.

Modern agriculture is amazing and if you look more closely you will see things that will truly impress you. No longer is this an industry caught in a technological backwater. The career opportunities are fantastic and those colleges, training providers and universities involved will tell you that the job opportunities are excellent with many more jobs than there are people to fill them.

There has never been a better time to consider working in the land based engineering sector. With the coming together (in what has become known as the “perfect storm”) of climate change, scarce water, ever increasing world populations and associated food shortages, not to mention insufficient energy resources, the need for the broad range of skills embodied in traditional land based (or agricultural) engineers has never been more evident.

www.landbasedengineering.com
www.iagre.org

Ideal if

This qualification is for anyone interested in a career working with land-based machinery, or boosting your existing skills and knowledge. You could be just starting out, or taking a break from a job to get some valuable training.

You'll need

English and maths GCSE at grade 3 or above.
You'll learn
The practical skills and theory to maintain a wide variety of land-based machinery and equipment.
Units covered include:

- Health and Safety
- Workshop Practice
- Transmission Systems
- Engines
- Fabrication
- Hydraulics
- Machinery Operations.

It will include 150 hours of work experience.

Expect
Formal practical and written exams under examination conditions.

You'll love
Immersing yourself in hands-on training at the start of an exciting and rewarding career. Modern land-based engineering requires skills including robotics, computer based imaging, GPS technology, science based solutions, climate forecasting, technological solutions, environmental controls and much more.
Our students have the opportunity to help with the Cornwall Farm Machinery Club meetings, a great networking event and a chance to meet industry professionals.

You'll go on to
The Land-based Engineering Diploma or an advanced apprenticeship, or the workplace at a junior level.

Choose from these course options

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Location</th>
<th>Start</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land-based Engineering Certificate</td>
<td>Bicton College</td>
<td>September 2020</td>
<td>1 year</td>
</tr>
<tr>
<td>Land-based Engineering Certificate</td>
<td>Duchy College Rosewarne</td>
<td>September 2020</td>
<td>1 year</td>
</tr>
<tr>
<td>Land-based Engineering Certificate</td>
<td>Duchy College Stoke Climsland</td>
<td>September 2020</td>
<td>1 year</td>
</tr>
</tbody>
</table>